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CENTRAL INTELLIGENCE AGENCY

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INFORMATION REPORT

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REPORT

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1. In July 1952, Scientific Technical Office No. 2 (NTB-2) at Dresden-Dobritz, Breitscheidstrasse 76-78, was still subordinate to SAG Kabel. It was unaffected by the return of many SAG concerns to the Germans in May 1952. Alexander Tikhanov (phonetic) was still head of NTB-2.
2. Pre-vacuum pumps-- 1951
 - a. In 1951, NTB - 2 built 120 pre-vacuum pumps. These were exact copies of a Leybold (Köln-Bayental) model: they were 2-stage, 3-piston pumps, handling 5 m³/hour. The first 10 or so pumps were able to reach a vacuum of 10⁻⁴ millimeters of mercury (Tor). Later pumps could actually reach 10⁻⁵ millimeters of mercury (Tor), although were not guaranteed to do so.
 - b. The order for these pumps was placed by Werk für Fernmeldewesen HF (SAG Kabel, Berlin-Oberschoaneweide, Ostendstrasse 1-5). Werk HF sent NTB-2 an acceptance official to examine these pumps. The pumps, packed in corrugated paper (i.e. not prepared for a long journey with rough handling) were shipped by road to Werk HF. Literature accompanying the pumps was written in German only.
3. Pre-vacuum pumps - 1952.

NTB-2 has already built and delivered another 90 of these pumps this year. They are identical to the 1951 models. They also went to Werk HF. Another 17 such pumps are still in NTB-2 awaiting completion. About 40 of the pumps so far delivered this year were without casings. It was understood in NTB-2 that they were for incorporation in some other machine.

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4. Small electric motors.

NTB-2 was engaged in July 1952 in building 10 sample very small electric motors (Kleinstmotoren) ranging in size from 0.2 (c. 5 W) - 0.8 (c. 600 W). Casings were to be of sheet steel. It was understood in NTB-2 that these were for Kuznetsov fnu (phonetic) of MEP, the Russian Ministry for the Electrical Industry.

5. Problems of underwater insulation.

- a. NTB-2 recently received ~~an~~oral request, through Tikhonov, from C.H. Jaeger, Leipzig (SAG AMO until May 1952- now under the Ministerium fuer Maschinenbau) to study an underwater insulation problem. NTB-2 was given an electric motor of 84 mm standard diameter and 220 mm overall length and asked to study its underwater insulation. The motor was one suitable for using with underwater pumps.
- b. NTB-2 has so far tried using a double-lacquered wire supplied by the firm of Ariadne,¹ Berlin. The inner part of the wire insulation is of iso-perlon. 1 mm. wire from Hettstedt has also been used: this has a 0.5 mm. copper core and a thermo-plastic insulation. For the casing of the motors, a bituminous substance like Siemen's type 992A, has been tried. Experiments on this problem are continuing.

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¹ Comment: This is probably Ariadne Draht-und Kabelwerk, Berlin 0112, Boxhagener Strasse 76-78 (private firm).

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